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To the Hon. Commissioner of Patents & Trademarks: Please record the attached original documents or copy thereof.

Name of conveying party(ies):

Masato SAKAMOTO, Katsunori TAMAMURA, Kazuhiko OOGAMI, Norikazu TADA, Atsushi KUSAKA, Akihito FUJIWARA and Mayumi TAKAHASHI

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

Nature of conveyance:

[X] Assignment

[] Merger

[ ] Security Agreement

[ ] Change of Name

[]Other

Execution Dates: November 12, 1999

Name and address of receiving party(ies):

Name:

PIONEER CORPORATION

and

TOHOKU PIONEER CORPORATION

Street Address:

No. 4-1 Meguro 1-chome, Meguroku, Tokyo-to, Japan

and

1105, Aza-Nikko, Oaza-Kunomoto, Tendo-shi, Yamagata-ken, Japan

4. Application number(s) or patent (numbers):

If this document is being filed together with a new application, the execution dates of the

application is: November 12, 1999

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

YOUNG & THOMPSON Second Floor 745 South 23rd Street Arlington, VA 22202

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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40 [X] Enclosed

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9. Statement and signature.

To the best of my'knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Mary Shelton

November 19, 1999

Name of Person Signing

Signature

Date

Total number of pages including cover sheet: [2]

**PATENT** REEL: 010414 FRAME: 0767

101.3600

## ASSIGNMENT

FOR CNE DOLLAR (\$1.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I (We), Masato SAKAMOTO, Katsunori TAMAMURA, Kazuhiko OOGAMI, Norikazu TADA, Atsushi KUSAKA, Akihito FUJIWARA and Mayumi TAKAHASHI

being the inventor(s) of certain improvements in GAIN CONTROLLING APPARATUS AND METHOD, INFORMATION REPRODUCING APPARATUS AND METHOD, AND INFORMATION RECORDING APPARATUS AND METHOD

hereby assign unto

- (1) PIONEER CORPORATION
- (2) TOHOKU PIONEER CORPORATION

**RECORDED: 11/19/1999** 

having a principal place of business at

- (1) No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan
- (2) 1105, Aza-Nikko, Oaza-Kunomoto, Tendo-shi, Yamagata-ken, Japan

our entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including any patent rights which may result from the application for United States Letters Patent in and to any and all divisions, reissues, continuations and extensions thereof and in and to any Letters Patent that may be granted thereon; said invention, application and Letters Patent that may be granted thereon; said invention, application and Letters Patent to be held and enjoyed by the said assignee for its own use and behoof and for the use and behoof of its successors and assigns, to the full end of the term from which said Letters patent or other rights of protection may be granted, as fully and as entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

WE COVENANT, AGREE AND WARRANT that we have a full and unencumbered title to the invention hereby assigned, and we further covenant and agree that we will, at any time upon request, without further compensation, execute and deliver any and all papers or instruments that in the opinion of the assignee may be necessary or desirable to secure said assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed.

IN WITNESS WHEREOF, we have hereunto set out hand and seal this 12th day of November  $\,$  , 1999 .

Date: November 12, 1999	Date: November 12, 1999
Masato Sakamoto	Artsunori Tamamura
Date: November 12, 1999  Rayuhiko Gogami	Date: <u>November 12, 1999</u> November 12, 1999
Date: <u>November 12, 1999</u> Atsushi <u>Kusaka</u>	Date: November 12, 1999  Alchito Fujiwara
Date November 12, 1999  Mayumi Takahashi	

PATENT REEL: 010414 FRAME: 0768